

ABSTRACT

To produce a high-performance specific gene amplification primer for detecting, quantifying, or identifying *Vibrio vulnificus*, having low risk of misidentification and practically sufficient amplification efficiency and amplification specificity. We have determined partial nucleotide sequences of *gyrB*, *rpoD*, and *recA* genes of *Vibrio vulnificus* and the closely related species, revealed their phylogenetic relationship, and then identified nucleotides characteristic to *Vibrio vulnificus*. Thus, we have made it possible to design a probe having high specificity and a gene amplification primer having high specificity and excellent amplification efficiency, both of which contain the characteristic nucleotides.